Exhibit S-1 Pr j ct No. 20222 Appl. No. 09/558,421 I neapolitora DLE (2779) SOM B ok No. 3884 49 October 13, 1984 (Thursday) 'age N .4% cell with the ted DH125 50 Le TIOE, DIGIEST SCHEME Granlated 37.C ( Kent . lelve React 3) 10 x B/R Eco47III 3% Agarore Gar (1xTAE), 190/6/6 1 For 22719 Golden gras Comment: 2017 V 1012415-1 E CO 4711 Eco47tt 6 K There must how the puc vector. To Page No. 57 ss d & Understo d by me, Date Invented by 10/24/94 Record d by May forgo

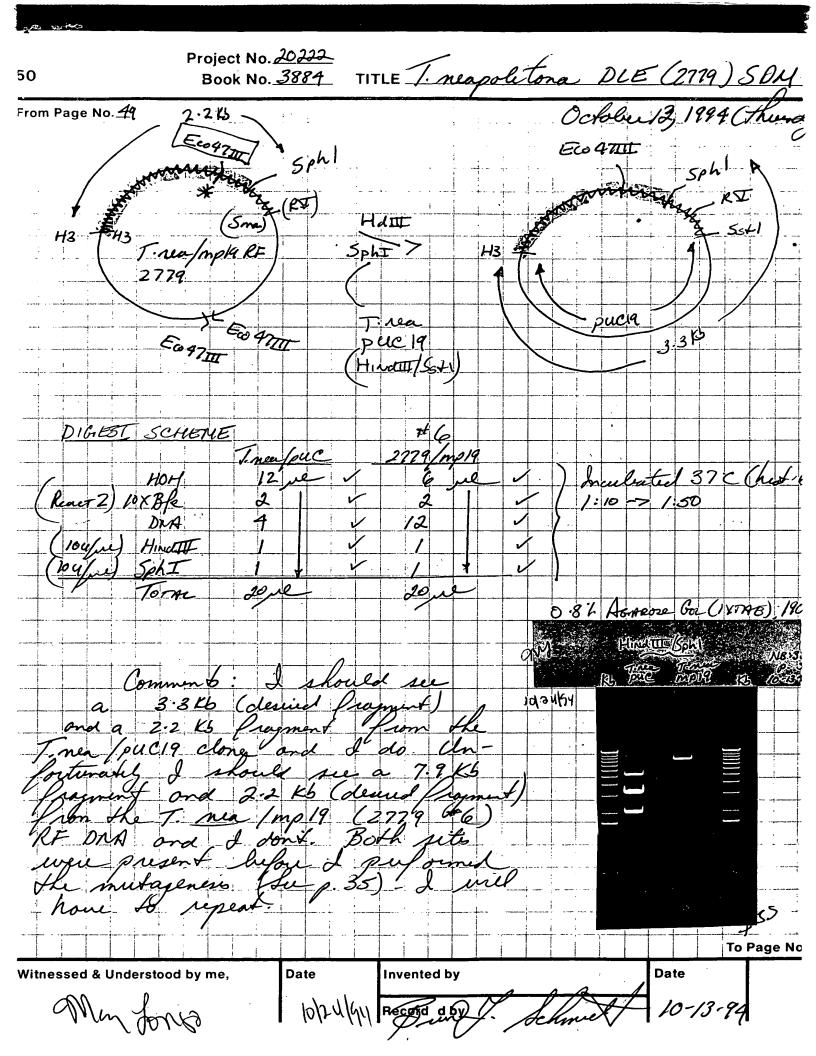
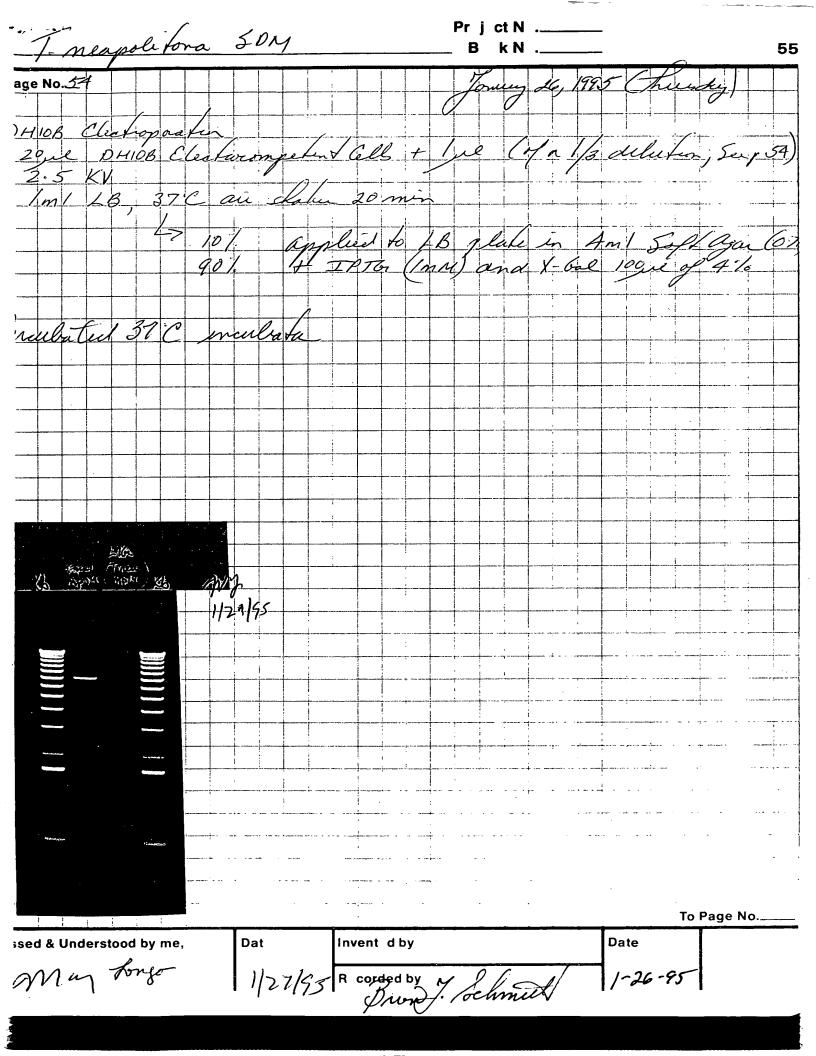
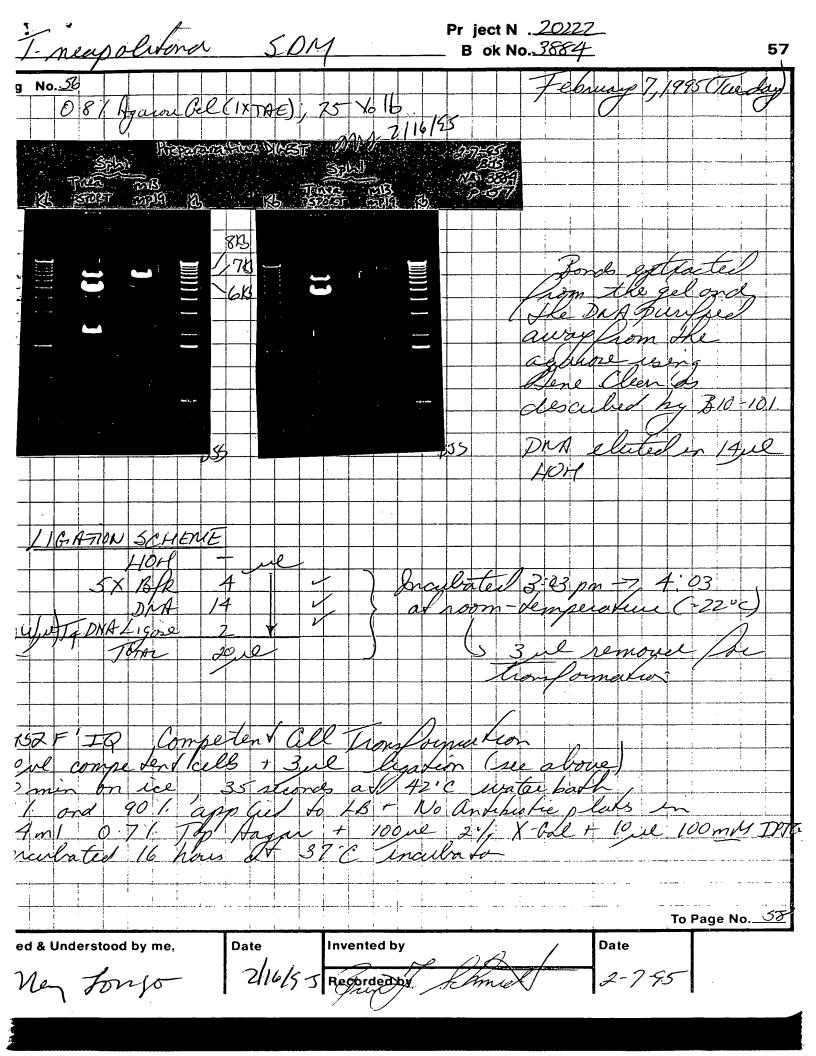


Exhibit S-2 Project N .. T. neapolitona Appl. No. 09/558,421 Book No.\_ BARACK DLE puc roy Bowley Sau3A make SSDMA To Page No. 🕰



Mydonyo



From Page No.5/
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February 8, 1985(h

A added 200 ul of DH5 XF IQ lawn cells to 10 ml

Circle Grow

Inducted Im/ of the cells to 8 gloss tube

-> Coeh tube was inoculated with a clear plage Project No. <u>20221</u> and inculated at 37°C (8:00 am -> -9.2Kb 7-2X5 VECTOR 8 4K6 VECTOR+I To Page Witnessed & Understood by me, Date Invented by Date Min Longo

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Exhibit S-6 Appl. No. 09/558,421 61

age No. 5ph 2700 7200 by 7200 300 40 Eco atti See on Oil DARENT 513 UUTAN May be to bag No. sed & Understood by me, Date Invented by

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May Jongo

2/16/95 Rocard dby

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23

Phe to Ala

Pr j ct No.\_\_\_\_ Bo k No.\_\_\_\_

corresponding phenyl abanine to tyrosine The Same tyrosine D will be Changet Alanine (Corresponding to For RXO Tagj) 01 Pol: mto Mismp. the SphI fragment The man cloned single Stranded DNA from CJ236 isolated the Bio rad Before escribed SSDNA 5 ul Test looks real good. DNA D-A (3-5 exo mutant oligo) CGT TTC AAG CGC TAG GGC AAA AGA # 2899 Eco 4711 site Phe -> Tyr (O-helix) HpaI. GTA TAT TAT AGA GTA GTT AAC CAT CTT TOCA # 2904 kinased 2899 before 2 M Oligo (210 pmci) follows? kinased 2904 80 bul 5x buffe (350ma Tris pH7.6, 50mm Macl2 50 MM Kd, 5 MM PME) 1 nl 10mH ATP 0,5ml T4 Kinase (50) sail (50) Apartatisis 5(4-3)0 -> T Pagernaze 20,5 pl H20 Date Invented by sed & Und rstood by m, 4 8 95 3 14 95 Record d by Chathia